In the claims:

1. (original) An image-capture circuit, comprising:

a digitizer operable to receive a serial analog color signal having a predetermined sequence of color components, the digitizer having:

a plurality of channels each operable to process a respective color component; and

an analog-to-digital converter operable to sequentially receive and digitize the color components; and

a controller coupled to the digitizer and operable to couple each of the channels to the analog to digital converter in the predetermined sequence.

- 2. (original) The image-capture circuit of claim 1, wherein the digitizer further includes a multiplexer disposed between the channels and the analog-to-digital converter, and the controller is further operable to cause the multiplexer to couple the channels to the analog-to-digital converter in the predetermined sequence.
- 3. (original) The image-capture circuit of claim 1, wherein each input channel is operable to modify the respective color component that it processes.
- 4. (original) The image-capture circuit of clam 3, wherein each input channel is further operable to amplify the respective color component.
- 5. (original) The image-capture circuit of claim 3, wherein each input channel is further operable to offset the respective color component.
- 6. (original) The image-capture circuit of claim 1, wherein the controller is further operable to control the digitizer such that the first input channel processes a first color component of the received analog-color signal, the second input channel processes a second color component of the received analog-color signal, and continuing until each color component is individually processed.

- 7. (original) The image-capture circuit of claim 1, wherein the digitizer is operable to receive the serial analog color signal in the plurality of channels.
- 8. (original) The image-capture circuit of claim 1, wherein the digitizer is further operable to receive a parallel analog-color signal having color components, each channel of the digitizer being operable to receive a respective color component.
- 9. (original) The image-capture circuit of claim 1, wherein the controller and the digitizer are formed on a single chip.
 - 10. (original) An image-capture circuit, comprising:
- a digitizer operable to receive a serial analog color signal having a predetermined sequence of color components, the digitizer having:

a plurality of signal modification channels, one of the channels operable to sequentially modify each of the color components according to a corresponding modification parameter; and

an analog-to-digital converter operable to sequentially receive and digitize the modified color components; and

a controller coupled to the digitizer and operable to sequentially update the modification parameter to correspond to the color component that the channel is modifying.

- 11. (original) The image-capture circuit of claim 10, wherein the modification parameter includes an amplification.
- 12. (original) The image-capture circuit of claim 10, wherein the modification parameter includes an offset.

- 13. (original) A scanner comprising:
- a sensor head operable to generate a serial analog-color signal having a predetermined sequence of color components responsive to a scan of an image;
 - an image-capture circuit, including:
 - a digitizer operable to receive the serial analog color signal and having:
- a plurality of channels each operable to process a respective color component; and
- an analog-to-digital converter operable to sequentially receive and digitize the color components; and
- a controller coupled to the digitizer and operable to couple each of the channels to the analog to digital converter in the predetermined sequence.
- 14. (original) The scanner of claim 13, wherein each input channel is coupled to the serial analog-color signal.
- 15. (original) The scanner of claim 13, wherein the controller is further operable to synchronize generation of a first color component by the sensor head with the processing of the first color component by a first channel, generation of a second color component by the sensor head with the processing of the second color by a second channel, and continuing until each color component has been generated and processed by a different channel
- 16. (original) The scanner of claim 13, wherein the color components include red, green, and blue.
 - 17. (original) The scanner of claim 13, wherein the scan head is a CIS type.
 - 18. (original) A scanner comprising:
- a sensor head operable to generate a serial analog-color signal having a predetermined sequence of color components responsive to a scan of an image;
 - an image-capture circuit, including:
 - a digitizer operable to receive the serial analog color signal and having:

a plurality of signal modification channels, one of the channels operable to sequentially modify each of the color components according to a corresponding modification parameter; and

an analog-to-digital converter operable to sequentially receive and digitize the modified color components; and

a controller coupled to the digitizer and operable to sequentially update the modification parameter to correspond to the color component that the channel is modifying.

19. (original) A method for digitizing a serial analog-color signal having a predetermined sequence of multiple color components, the method comprising;

modifying a first one of the components with a first channel and digitizing the modified component during a first time period; and

modifying a second one of the components with a second channel and digitizing the modified component during a second time period that is separate from the first time period.

20. (original) A method for digitizing a serial analog-color signal having a predetermined sequence of multiple color components, the method comprising;

setting a modification parameter of a selected one of a plurality of channels to first predetermined level, modifying a first one of the color components with the channel, and digitizing the modified first component during a first time period; and

setting the modification parameter of the channel to a second predetermined level, modifying a second one of the color components with the channel, and digitizing the modified second component during a second period of time that is separate from the first time.

21. (new) An image-capture circuit, comprising:

a plurality of channels each operable to receive an analog color signal including a predetermined sequence of color components and to process a respective one of the color components;

an analog-to-digital converter operable to sequentially receive and digitize the processed color components from the channels; and

a controller coupled to the digitizer and operable to couple the channels to the analog-to-digital converter in the predetermined sequence.

22. (new) A scanner, comprising:

a sensor head operable to scan an image and to generate an analog color signal that represents the image, the signal having a predetermined sequence of color components;

a plurality of channels each operable to receive the analog color signal from the sensor head and to process a respective one of the color components;

an analog-to-digital converter operable to sequentially receive and digitize the processed color components from the channels; and

a controller coupled to the digitizer and operable to couple the channels to the analog-to-digital converter in the predetermined sequence.

23. (new) A method for digitizing an analog color signal having a predetermined sequence of color components, the method comprising:

receiving the analog color signal with first and second channels;

modifying a first one of the components with the first channel and digitizing the modified first component during a first time period; and

modifying a second one of the components with the second channel and digitizing the second modified component during a second time period that is separate from the first time period.

24. (new) The method of claim 23, further comprising:
receiving the analog color signal with a third channel; and
modifying a third one of the components with the third channel and digitizing
the modified third component during a third time period that is separate from the first

and second time periods.